





BATTERY ENERGY STORAGE SOLUTION (BESS)



-  Intelligent EMS management system
-  Photovoltaic energy storage
-  Commercial energy storage
-  Backup power supply



MODEL	INV BESS 512V/800Ah
Battery Chemistry	LiFePO4
Cell Type	3.2V 100Ah Prismatic
Module type	16S-2P
Rated Voltage (V)	512
Rated Capacity (Ah)	800
Rated Energy (Wh)	384000
Max. Charging Voltage (V)	584 ± 0.5V
Max. Discharging Voltage (V)	440 ± 0.5V @ 100% DOD
Nominal Charge Current (A)	100
Nominal Discharge Current (A)	100
Max. Charge Current (A)	100
Max. Continuous Discharge Current (A)	140
Operating Voltage Range (V)	584 to 467 ± 0.5V @ 80% DOD
Operating Temperature degree C	Discharge -20°C to 60°C Humidity <85% Charge 0°C to 50 °C Humidity <85%
Life Cycle	5000 Cycle (@ 25degree C ,0.3C Charge 0.5C Discharge - 80% DOD)
Over Temperature Protection degree C	60 ± 0.5
Over Discharge Voltage Protection (V)	584 ± 0.5
Over Charge Voltage Protection (V)	440 ± 0.5
Short Circuit Current Protection	Yes
Fire Protection	Yes
HVAC	Yes
CCTV Camera	Yes
LED Light inside and Outside	Yes
Firefighting System	Yes
Dimensions (L x W x H) mm.	(6096*2438*2621), mm
Approx. Weight (KG.)	Approx. 8500 kg.
Outer Enclosure	Mild Steel Sheet Metal Enclosure
Fan	DC 48V (Each Battery)
Connector	Battery Storage Connector 1000V 400A
Battery connecting wires	50 mm2 AWG
Output LT Panel	415V 3-Phase
AUX Input LT Panel	415V 3-Phase
CERTIFICATION	IEC 61000-3-3 2013+AMD1 2017+AMD2 2021, IEC 61000-3-22018+AMD1 2020+AMD2 2024, IEC 61000-6-1 2019 IEC 61000-4-2 2008, IEC 61000-6-3 2020, IEC 62619 2017
Protection System	<p>-Fire Protection System 40 Ltr. CCOE / PESO Approved Seamless Cylinder with 30 Kg. FK-5-1-12 Gas with all FM 200 piping, nozzles, Photo Electronic Alarm System, Smoke with Heat Detectors & Micro Controller based Gas Release System with Control Panel</p> <p>-HVAC TOSHIBA make DX Type Ductable Inverter Duty Air Conditioning System of 4 TR Capacity with Micro Controller based Operating Panel</p> <p>-Battery Management System Multi layered Micro Processor based Battery Management System with Active balancing consisting of Cell level monitoring for Voltage, Current, Life Cycle & Thermal Analysis</p>
Key Features	<p>›Please use within the environment temperature from 5 °C to 25 °C.›We recommend to fully charge the battery pack according to the product specification before use for the first time.</p> <p>›When charging, first connect the charger plug and battery pack socket, and then connect the charger to source.</p> <p>›Do not put the battery into the water and corrosive liquid or metal foreign body, may cause battery leakage, heat, smoke, and explosion.</p> <p>›Keep the battery away from heat, open flames, flammable and explosive gas and liquid, may cause battery leakage, heat, smoke, and explosion.</p> <p>›Use with specified charger, ensure the quality of the battery charger and safety.</p> <p>›If the battery gives off odor, gets heat, deformation, discoloration or appears any abnormal phenomenon, stop using it contact the manufacturer, do not disassemble by yourself.</p>